

BILIBINA, N.F., kand. ekon. nauk; YABLOKOV, V.I., red.; GORYACHKINA, R.A., tekhn.-red.

[Methods for determining the economic efficiency of the introduction of new equipment in automotive transportation]  
Metodika opredelenia ekonomicheskoi effektivnosti vnedreniia novoi tekhniki na avtomobil'nom transporte. Moskva, Avtotransizdat, 1963. 86 p. (MIRA 16:7)

1. Moscow. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta.

(Transportation, Automotive--Equipment and supplies)

BERGER, Yudko Bentsianovich; BOGDANSKIY, Aleksandr Sergeyevich;  
YABLOKOV, V.I., red.; GALAKTIONOVA, Ye.N., tekhn. red.

[Organization of specialized mechanization units] Spe-  
tsializirovannaia baza mekhanizatsii. Moskva, Avtotrans-  
izdat, 1963. 101 p. (MIRA 16:12)  
(Cranes, derricks, etc.)

DERGACHEV, Aleksandr Fedorovich; YABLOKOV, V.I., red.; GORYACHKINA,  
R.A., tekhn. red.

[Principles of the economics of automobile repair production]  
Osnovy ekonomiki avtoremontnogo proizvodstva. Moskva, Avto-  
transizdat, 1963. 102 p. (MIRA 16:4)  
(Automobiles—Repairing)

USPENSKIY, Aleksey Ivanovich; YABLOKOV, V.I., red.; GALAKTIONOVA,  
Ye.N., tekhn. red.

[Analysis of the operation of motortrucks] Analiz raboty  
gruzovykh avtomobilei. Moskva, Avtotransizdat, 1963. 113 p.  
(MIRA 16:6)

(Transportation, Automotive)

MARGOLIS, Semen Yakovlevich; YAKOBASHVILI, Andrey Mikhaylovich;  
LYUBINSKIY, Natan Markovich; YABLOKOV, V.I., red.

[Specialized rolling stock for automotive freight haulage;  
works practice of the Main Moscow Automotive Transportation  
Organization] Spetsializirovannyi podvizhnoi sostav dlia  
gruzovykh avtomobil'nykh perevozok; iz opyta raboty Glav-  
mosavtotransa. Moskva, Avtotransizdat, 1963. 213 p.  
(MIRA 17:4)

AVDON'KIN, Fedor Nikolayevich; YABLOKOV, V.I., red.

[Maintenance and repair of the lifting device of ZIL-MMZ  
dump trucks] Tekhnicheskoe obsluzhivanie i remont pod'em-  
nogo mekhanizma avtomobilei-zamosvalov ZIL-MMZ. Izd.3.,  
perer. i dop. Moskva, Transport, 1964. 109 p.

(MIRA 17:6)

KHAL'FAN, Yuriy Arkad'yevich; GURMAN, Viktor Samuilovich; YABLOKOV,  
V.I., red.

[Repair of the "Moskvich" automobile (models 407 and 403)]  
Remont avtomobilei "Moskvich" (modelei 407 i 403). Izd.2.,  
ispr. i dop. Moskva, Transport, 1964. 309 p.  
(MIRA 17:5)

BEREZKIN, Vasilii Ivanovich; KRASNOV, Konstantin Alekseyevich;  
YABLOKOV, V.I., red.

[Equipment for garages and service stations] Oborudovanie  
dlia garazhei i stantsii obsluzhivaniia avtomobilei. Izd.2.,  
perer. i dop. Moskva, Transport, 1964. 462 p.

(MIRA 17:7)



RUMYANTSEV, Yuriy Sergeyevich; YABLOKOV, V.I., red.

[Original accounting for the work of trucks] Pervichnyi  
uchet raboty gruzovykh avtomobilei. Moskva, Transport,  
1965. 59 p. (MIRA 18:9)

YABLOKOV, V. S.

SHVETSOV, Mikhail Sergeyevich and V. S. YABLOKOV, eds.....The Moscow coal basin.  
Moscow, (United scientific-technical publishing-office), 1937. 55 p., 1 l.  
(International geological congress, XVII session. USSR, 1937. Excursion to the  
Moscow coal basin.)  
"List of literature": p. (56)

NoD

SO: LC, Soviet Geography, Part II, 1951/Unclassified

YABLYKOV, V. S.

Deputy Chief, Coal Geology Branch Institute of Geological Sciences, Acad. Sci. (-1944-).

Geology

"Results of Geologists' Conference Concerning Coal Deposits" Vst Ak Nauk SSSR, Nos. 7-8, 1944.

BR-52059019

STEPANOV, P.I. [deceased], akademik; YABLOKOV, V.S.

Tasks and results of the conference on the geology of coal deposits.  
Trudy Inst.geol.nauk. no.90:1-6 '47. (MLRA 9:11)  
(Coal geology)

YABLOKOV, V. S.

USSR/Minerals - Coal

Nov/Dec 51

"Genetic Types of Mid-Carboniferous Coals in Southwest Donbass," L. I. Bogolyubova and V. S. Yablokov.

"Iz Ak Nauk SSSR, Ser Geol" No 6, pp 110-119

Authors outline genetic characteristics of Donbass coals on basis of petrographic research in Dnepropolsk, Krasnoarmeysk and Kurakhov regions in southwest Donbass. The work is an outgrowth of complex investigations of carboniferous formations of Donets Basin, performed under direction of Yu. A. Zhemchuzhnikov.

205T88

**YABLOKOV, V.S.**

BELYANKIN, B.S., akademik, redaktor; VLASOV, K.A., redaktor; AFANAS'YEV, G.D., redaktor; PEYVE, A.V., redaktor; PUSTOVALOV, L.V., redaktor; STRAKHOV, N.M., redaktor; YABLOKOV, V.S., redaktor

[Resolution of a conference on sedimentary rocks] Reshenie soveshchaniya po osadochnym porodam. Moskva, Izd-vo Akademii nauk SSSR, 1953. 31 p. [Microfilm] (MLRA 7:10)

1. Chlen-korrespondent AN SSSR (for Strakhov) SSSR. Otdeleniye geologo-geograficheskikh nauk. (Rocks, Sedimentary)
2. Akademiya nauk

YABLOKOV, V. S.

USSR/Geophysics - Ore Deposits

Mar/Apr 53

"Brief Communications"

Iz Ak Nauk SSSR, Ser Geol, No 2, pp 110-121

Subject communications are: "The Problem of the Origin of Iron Ores," V. N. Poddudnyy (on the order of a general discussion); "The Relation Between Coal Strata and the Emission Rate of Methane From Coals," I. L. Ettinger, L. Ye. Shterenberg, and V. S. Yablokov; and "The Age of the Paleozoic Deposits of the Lower Reaches of the Urkan River (Basin of the Zeya River)," M. S. Nagibina.

PA 251749

YABLOKOV, V. S.

"Study of Sedimentary Mineral Rocks and Useful Minerals," Priroda, No.4,  
1953. pp 60-65

Presents results of conference on sedimentary rocks, which was attended  
by 600 delegates and 600 guests representing 195 organizations of AS USSR and its  
affiliates. 19 reports were read on general problems, status of individual problems,  
and industrial specialties. 261T85



B. T. R.  
V. 3 No. 3  
Mar. 1954.  
Mining - Engineering

3969\* The Connection Between the Structure of Coal Layers and the Phenomenon of Sudden Extrusion of Gases and Rock. (Russian) A. I. L. Ettinger, L. E. Shterenberg, and V. S. Jablovkov. *Ugol*, 1953, no. 11, p. 28-31. Discusses necessity of recognizing structural changes in certain layers and their importance in rock extrusions. Diagrams, tables. 4 ref.

Inst. Geol. Sci., AS USSR

③ Incls

1. ET'INGER, I. L.; SHTERENBERG, L. Ye.; YABLOKOV, V. S.
2. USSR (600)
4. Methacrylic Acid
7. Effect of the intensity of stirring on the rate of heterophase polymerization of methylmethacrylate in solution, Zhur. prikl. khim. 26 No. 4, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April, 1953. Uncl.

1. YABLOKOV, V. S.
  2. USSR (600)
  4. Mines and Mineral Resources
  7. Study of sedimentary rocks and mineral resources (results of a conference on sedimentary rocks). Priroda 42, No. 4, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

YABLOKOV, V.S. (Reviewer)

"Coal." I.Vasil'kov, M.Tseitlin. Reviewed by V.S.Iablokov.  
Izv,AN SSSR Ser.geol. no.1:125-130 Ja-P '54. (MLRA 7:3)  
(Vasil'kov, I.) (Tseitlin, M.) (Coal)

YABLOKOV, V. S.

USSR/Scientific Organization - Conferences

Card 1/1 Put. 46 - 23/24

Authors : Senderzon, E. M.; Khalfin, L. L.; and Yablokov, V. S.

Title : On the stratigraphy of the Kuznetsk Basin

Periodical : Izv. AN SSSR. Ser. geol. 6, 151-154, Nov-Dec 1954

Abstract : Minutes are presented of the general meeting called by the Ministry of Geology and Preservation of Natural Resources, USSR at which the stratigraphy of the Leninsk-Kuznetsk coal basin was discussed. Table showing the stratigraphy of the coal-bearing Kuzbas region is included.

Institution : .....

Submitted : August 2, 1954

YABLOKOV, V.S.

BOFVINKINA, L.H.; PROFILOVA, A.P.; YABLOKOV, V.S.

Study of the texture and deposition conditions of the most recent alluvial and other deposits in the lower reaches of the Don River and in the coastal region of the Sea of Azov. Trudy Inst.geol. nauk no.151:30-89 '54. (MLRA 8:8)  
(Don Valley--Alluvium) (Azov region--Alluvium)

YABLOKOV  
FEOFILOVA, A.P.; YABLOKOV, V.S.

Structural features of sandy strata of alluvial origin in  
the  $C_2^5$ ,  $C_2^6$  and  $C_2^7$  series of the Donets Basin's central region.  
Trudy Inst.geol.nauk no.151:117-171 '54. (MIRA 8:8)  
(Donets Basin--Coal geology) (Donets Basin--Geology,  
Stratigraphic)

Yablokov, V.S.

YABLOKOV, V.S.; BOGOLYUBOVA, L.I.; KALINENKO, V.V.; INOSOVA, K.I.; ISHCHENKO,  
A.M.; ZHEMCHUZHNIKOV, Yu.A., redaktor; NOSOV, G.I., redaktor; KISELEVA,  
A.A., tekhnicheskii redaktor

[Atlas of the microstructure of the coals of the Donets Basin] Atlas  
mikrostruktur uglei Donetskogo basseina. Pod red. V.S. Iablokova i  
Yu.A. Zhemchuzhnikova. Moskva, Izd-vo Akademii nauk SSSR, 1955. 41 p.  
(Donets Basin--Coal) (MIRA 9:1)



YABLOKOV, V.S.

SHOKHRAKOV, D.I., akademik; redaktor; AFANAS'YEV, G.D.; redaktor;  
VLASOV, K.A., redaktor; PEYVE, A.V., redaktor; PUSTOVALOV, L.V.,  
redaktor; YABLOKOV, V.S., redaktor; NOSOV, G.I., redaktor.

[Conference on sedimentary rocks] Soveshchanie po osadochnym  
poredam. Moskva, Izd-vo Akademii nauk SSSR. No.2 [Proceedings]  
Doklady. 1955. 262 p. [Microfilm] (MIRA 8:7)

1. Chlen-korrespondent AN SSSR (for Afanas'yev). 2. Akademiya  
nauk SSSR, Otdeleniye geologo-geograficheskikh nauk.  
(Rocks, Sedimentary)(Bibliography - Rocks, Sedimentary)

4852. ATLAS OF TYPES OF COALS AND COAL BEARING ROCKS. Yablonsky, V.S.  
(Vestn. Akad. Nauk SSSR (U.S.S.R. Acad. Sci. U.S.S.R.), Nov. 1955, 115, 1167).  
Studies by the Institute of Geological Sciences, Academy of Sciences U.S.S.R.,  
in Kuzbass and Donbass have resulted in an "atlas" of data from Donbass.  
Atlases will be produced for other fields. Novelty is claimed for a method  
of preparing transparent sections of specimens; it is applicable to high rank  
coals containing less than 10% volatiles.

YABLOKOV, V. S.,

USSR/ Geology - Conferences

Card 1/1 Pub. 46 - 21/21

Authors Yablokov, V. S. and Vinogradov, B. G.

Title Conference on the geology of the coal basin near Moscow

Periodical Izv. AN SSSR. Ser. geol. 20/2, 154 - 156, Mar-Apr 1955

Abstract An account is given of a conference held in the City of Tula from 18 to 22 October, 1954, on the geology of the coal basin near Moscow. Twenty-nine reports were read and discussed.

Institution : .....

Submitted : November 9, 1954

YABLOKOV, V.S.

Tasks in coal geology; conference in Leningrad. Vest. AN SSSR 25  
no.8:93-94 Ag '55. (MLRA 9:1)

(Coal geology)

BOTVINIKINA, L.N.; ZHEMCHUZHNIKOV, Yu.A.; TIMOFEYEV, P.P.; PROFILOVA, A.P.,  
YABLOKOV, V.S.; IL'INA, N.S., redaktor izdatel'stva; KISELEVA, A.A.,  
tekhnicheskii redaktor

[Atlas of lithogenous type middle Carboniferous coal deposits in  
Donets Basin] Atlas litogeneticheskikh tipov uglennykh otlozhenii  
srednego karbona Donetskogo basseina. Moskva, Izd-vo Akademii nauk  
SSSR, 1956. 367 p. (MLA 9:10)

(Donets Basin--Coal geology)

YABLOKOV, V.S.; ZHEMCHUZHNIKOV, Yu.A.

Facies-cyclical method of studying coal-bearing deposits. Trudy  
Lab.geol.ugl. no.5:161-169 '56. (MLBA 9:8)

1. Institut geologicheskikh nauk AN SSSR.  
(Coal geology)

Yablokov, V.S.

SHCHERBAKOV, D.I., akademik; SHATSKIY, N.S., akademik; MIRONOV, S.I., akademik;  
STRAKHOV, N.M., akademik; KORZHINSKIY, D.S., akademik; BETEHTIN, A.G.,  
akademik; NALIVKIN, D.V., akademik; POLKANOVA, A.A., akademik; AFANAS'-  
YEV, G.D.; VLASOV, K.A.; CHUKHROV, F.V.; LEVITSKIY, O.D.; PAVLOVSKIY, Ye.V.,  
professor; BARSANOV, G.P., professor; YERSHOV, A.D.; IVANOV, B.V.;  
YABLOKOV, V.S.; ARDASHNIKOVA, S.D.

Academician Vladimir Afanas'yevich Obruchev, hero of socialist labor;  
obituary. Izv. AN SSSR. Ser.geol. 21 no.6:5-10 Je'56. (MIRA 9:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Afanas'yev, Vlasov,  
Chukhrov, Levitskiy).

(Obruchev, Vladimir Afanas'yevich, 1863-1956)

ZHEMCHUZHNIKOV, Yu.A.; YABLOKOV, V.S.; BOGOLYUBOVA, L.I.; BOTVIKINA, L.N.;  
FEOFILOVA, A.P.; RITENBERG, M.I.; TIMOFEEV, P.P.; TIMOFEEVA, Z.V.;  
KROPOTKIN, P.N., red.izd-va; SHEVCHENKO, G.N., tekhn.red.

[Structure and factors determining the accumulation of basic coal-bearing series and layers in the central Carboniferous of the Donets Basin. Part 1.] Stroenie i usloviia nakopleniia osnovnykh ugleosnykh svit i ugol'nykh plastov srednego karbona Donetskogo basseina. Moskva, Izd-vo Akad. nauk SSSR, 1959. 331p. (Akademiia nauk SSSR. Geologicheskii institut. Trudy, no.15)

(MIRA 12:6)

(Donets Basin--Coal geology)



3(8)

SOV/11-59-3-16/17

AUTHOR: Yablokov, V.S.

TITLE: Problems of Coal Petrology and Lithology of Coal-Bearing Deposits at the International Congress in Heerlen (The Netherlands) in 1958 (Voprosy uglepetrologii i litologii uglenosnykh otlozheniy na mezhdunarodnykh kongressakh v Kheyerlene (Gollandiya) v 1958 g.)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1959, Nr 3, pp 122-127 (USSR)

ABSTRACT: The 1st International Congress on Coal Petrology was held in Heerlen on September 10-13, 1958, and the 4th International Congress on Stratigraphy and Geology of Carbon on September 15-20, 1958. Soviet scientists A.A. Lyuber (Laboratoriya geologii uglya AN SSSR - Laboratory of Coal Geology of the AS USSR) and I.I. Ammosov (Institut goryuchikh iskopayemykh AN SSSR - Institute of Mineral Fuels of the AS USSR) had participated for the first time in 1955 in the work of the

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SOV/11-59-3-16/17

Problems of Coal Petrology and Lithology of Coal-Bearing Deposits  
at the International Congress in Heerlen

Committee. Approximately 100 representatives from 21 countries participated in the 1st International Congress. The Soviet delegation consisted of Corresponding Member of the AS USSR I.I. Gorskiy (head of the Soviet delegation), I.I. Ammosov (IGI AN SSSR - Institute of Mineral Fuels of the AS USSR), L.I. Bogolyubova (GIN AN SSSR - Geological Institute of the AS USSR), I.B. Volkova, O.A. Dzents-Litovskaya, L.P. Nefed'yeva, O.A. Radchenko (LAGU AN SSSR - "LAGU" AS USSR), V.S. Yablokov (Geological Institute of the AS USSR). The following Soviet scientists read papers: V.S. Yablokov and L.I. Bogolyubova presented some results from a detailed study of carboniferous coal in the Don Basin and Moscow Basin, and of Jurassic and Tertiary coal of the Urals. I.I. Ammosov read a paper on the special features of petrographical components of izometamorphic coal. V.S. Yablokov, I.E. Val'ts and A.I. Ginzburg on the work done in the USSR on compiling a series of atlases of coal from different basins.

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SOV/11-59-3-16/17

Problems of Coal Petrology and Lithology of Coal-Bearing Deposits  
at the International Congress in Heerlen

L.P. Nefed'yeva reported on the genesis of giant coal strata from the study of 3 different deposits. I.E. Val'ts presented detailed characteristics of micro-components of humic coal, formed from different vegetable substances and having a different structure. A.A. Lyuber read a paper dealing with anthracolite microspores in the Angara Province. As to lithology, the USSR produced 2 papers: V.S. Yablokov, L.N. Botvinkina, and A.P. Feofilova reported on the significance of alluvial deposits in the structure of coal-bearing beds of the Donbas, Karaganda and the Moskva Basin. G.F. Krashenninnikov (Moskva University) reported on the facies investigations of coal-bearing Paleozoic deposits and their practical significance. A comprehensive paper was read by the Corresponding Member

Card 3/4

SOV/11-59-3-16/17

Problems of Coal Petrology and Lithology of Coal-Bearing Deposits  
at the International Congress in Heerlen

of the AS USSR I.I. Gorskiy on the status of coal  
geology in the USSR, in which he discussed Soviet  
coal reserves.

Card 4/4

( SOV/11-59-8-12/17

AUTHOR: Tomkeyev, S.I. (S. Tomkeef - Newcastle upon Tyne) and  
Yablokov, V.S. (Moscow)

TITLE: Marie Stops

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya,  
1959, Nr 8, p 112 (USSR)

ABSTRACT: This is an obituary article on Marie Carmichael Stops,  
founder of modern petrography of coals. She died on  
2 October 1958.

Card 1/1

YABLOKOV, V.S.; BOGOLYUBOVA, L.I.

"Brown coal formation in the lower Rhine Valley." Reviewed by  
V.S.Iablokov, L.I.Bogoliubova. Izv.AN SSSR.Ser.geol. 24  
no.12:104-106 D '59. (MIRA 13:8)  
(Rhine Valley--Coal geology)

YABLOKOV, V. S.

"Activities of the Commission on Sedimentary Rocks at the Department of Geological and Geographical Sciences, of the USSR Academy of Sciences. "

report presented at the 6th Congress of the International Association of Sedimentology (IAS), Copenhagen, 17-19 August 1960.

Vice Chairman of the Comm. on Sedimentary Rocks, Acad. Sci. USSR.

TABLOKOV, V.S.; BOGOLYUBOVA, L.I.

Humic coal and structural types of certain Mesozoic thick beds.  
Izv. AN SSSR. Ser. geol. 25 no.5:49-59 My'50. (MIRA 13:10)

1. Geologicheskii institut AN SSSR, Moskva.  
(Coal geology)



YA. ILOKOV, V.S.

Committee on sedimentary rocks of the Department of Geological and  
Geographical Sciences of the Academy of Sciences of the U.S.S.R.  
Izv. AN SSSR. Ser. geol. 25 no.5:126-127 My'60. (MIRA 13:10)

1. Zamestitel' predsedatelya Komissii po osadochnym porodam pri  
otdelenii geologo-geograficheskikh nauk AN SSSR.  
(Rocks, Sedimentary)

SHATSKIY, N.S.; KORZHINSKIY, D.G.; YANSHIN, A.L.; PEYVE, A.V.; SHTREYS,  
N.A.; YABLOKOV, V.S.; TIKHOMIROV, V.V.

N.V. Frolova (1907-1960); obituary. Izv. AN SSSR. Ser. geol.  
25 no.9:135 S '60. (MIRA 13:9)  
(Frolova, Natal'ia Vasil' evna, 1907-1960)

GUDZHEDZHIANI, B.I.; CHICHUA, B.K.; PETROVSKIY, G.D.; KOMETIANI, G.A.;  
AZMAYPARASHVILI, M.V.; AVALISHVILI, E.Ye.[deceased];  
MIRZIASHVILI, T.M.; SHCHERBAKOV, D.I., glav.red.; ARCHVADZE, Sh.R.,  
red.; BOGOLYUBOVA, L.I., red.; VAL'TS, I.E., red.; TAVADZE, F.N.,  
red.; YABLOKOV, V.S., red.; PEVZNER, G.Ye., red.izd-va; MAKUNI, Ye.V.,  
tekh. red.

[Coal atlas of the Caucasus] Atlas uglei Kavkaza. By B.I.Gudzhedzhiani  
i dr. Moskva, Izd-vo Akad.nauk SSSR, 1961. 167 p. (MIRA 14:12)

1. Akademiya nauk Gruzinskoy SSR, Tiflis. Sovet po izucheniyu proiz-  
voditel'nykh sil.

(Caucasus—Coal geology)

STRAKHOV, N.M., akademik, red.; BEZRUKOV, P.L., red.; YABLOKOV, V.S., red.; NOSOV, G.I., red. izd-va; BRUZGULS, V.V., tekhn. red.; TIKHOMIROVA, S.G., tekhn. red.

[Recent sediments of seas and oceans; transactions of a conference held on May 24-27, 1960] Sovremennye osadki morei i okeanov; trudy soveshchaniia 24-27 maia 1960. Moskva, Izd-vo Akad.nauk SSSR, 1961. 644 p. (MIRA 15:1)

1. Akademiya nauk SSSR. Komissiya po osadochnym porodam.
2. Geologicheskii institut AN SSSR (for Strakhov). 3. Institut okeanologii AN SSSR (for Bezrukov).  
(Submarine geology)

AFANAS'YEV, G.D.; BARSANOV, G.P.; VLASOV, K.A.; KORZHINSKIY, D.S.;  
MIRCHINK, M.F.; NALIVKIN, D.V.; PAVLOVSKIY, Ye.V.; PEYVE, A.V.;  
SMIRNOV, V.I.; STRAKHOV, N.M.; CHUKINOV, F.V.; SHCHERBAKOV, D.I.;  
YABLOKOV, V.S.

Oleg Dmitrievich Levitskii; obituary. Izv.AN SSSR.Ser.geol. 26  
no.6:110-111 Je '61. (MIRA 14:6)  
(Levitskii, Oleg Dmitrievich, 1909-1961)

YABLOKOV, V.S.; YABLOKOV, A.V.

How did boulders and pebbles penetrate coal formations?  
Priroda 50 no. 3:76-78 Mr '61.

(MIRA 14:2)

1. Geologicheskiy institut AN SSSR (for Yablokov, V.).
2. Institut morfologii zhivotnykh AN SSSR, Moskva (for Yablokov, A.)  
(Rocks) (Coal)

TIMOFEYEV, P.P.; BOGOLYUBOVA, L.I.; YABLOKOV, V.S.

Principles of a genetic classification of humic coals.  
Izv.AN SSSR. Ser.geol.27 no.2:49-63 F '62. (MIRA 15:1)

1. Geologicheskii institut AN SSSR, Moskva.  
(Coal—Classification)

AFANAS'YEV, G.D.; BARSANOV, G.P.; VLASOV, K.A.; KORZHINSKIY, D.S.; MIRCHINK,  
M.F.; PAVLOVSKIY, Ye.V.; PEYVE, A.V.; SMIRNOV, V.I.; CHUKHROV,  
F.V.; SHCHERBAKOV, D.I.; YABLOKOV, V.S.

In memory of Kh.M.Abdullaev. Izv. AN SSSR. Ser.geol. 27 no.9:  
117-118 8 '62. (MIRA 15:9)

(Abdullaev, Khabib Mukhamedovich, 1912 (?) - 1962)



YABLOKOV, V.S.; GVOZDEVA, N.P.; KOCHETOVA, V.I.; UMNOVA, N.I.;  
KREN', N.L.; SHMIDT, M.I.; VANDERFLIT, Ye.K.; PAVLOV, S.I.,  
red.; FINOGENOV, V.P., red.; RODIONOV, A.F., tekhn. red.

[Atlas of coals of the Moscow Basin]Atlas uglei Podmoskovnogo  
basseina. Pod red. V.S.Iablokova. Tula, TSentr. biuro tekhn.  
informatsii. Vol.1. 1962. 195 p. Vol.2.[Photographs of  
thin sections and samples of coals]Fotografii shlifov i obraz-  
tsov uglei. 1961. 56 tables. (MIRA 16:4)  
(Moscow Basin--Coal)

YABLOKOV, V.S., otv. red.; BEZRUKOV, P.L., red.; SHVETSOV, M.S.,  
red.; SHEVCHENKO, G.N., tekhn. red.

[Deltaic and shallow-water marine sediments] Del'tovye i  
melkovodno-morskie otlozheniia. Moskva, Izd-vo AN SSSR,  
1963. 262 p. (MIRA 16:12)

1. Akademiya nauk SSSR. Komissiya po osadochnym porodam pri  
otdelenii geologo-geograficheskikh nauk.  
(Sediments (Geology))

YABLOKOV, V. S.

Nepal and her minerals. Izv. AN SSSR. Ser. geol. 29 no. 1:75-86  
Ja '64. (MIRA 17:5)

1. Geologicheskiiy institut AN SSSR, Moskva.

BOTVINKINA, L.N.; SELIVERSTOV, V.A.; SOKOLOVA, T.N.; YABLOKOV, V.S.

Some genetic types of Tatarian red beds in the Ural Mountain region  
of Orenburg Province. Izv. AN SSSR.Ser.geol. 28 no.5:47-66 My  
'63. (MIRA 17:4)

1. Geologicheskii institut AN SSSR, Moskva.

TIMOFEYEV, P.P.; BOGOLYUBOVA, L.I.; YABLOKOV, V.S.

Some problems of the genetic classification and terminology of  
humic coals; concerning A.I. Ginzburg's critical remarks. Izv.  
AN SSSR Ser. geol. 29 no.7:98-104, Jl '64 (MIRA 18:1)

1. Geologicheskii institut AN SSSR, Moskva.

STRAKHOV, M.M.; LANGE, O.K.; YABLOKOV, V.S.; SARYCHEVA, T.G.;  
OVCHINNIKOV, A.M.; SHCHEGOLEV, D.I.; KRASHENINNIKOV, G.F.;  
MEYAYLENKO, P.A.; KALEDA, G.A.; ANUFRIYEV, A.A., student

Mikhail Sergeevich Shvetsov, 1885- . Itv. vys. ucheb. zav.;  
geol. i razv. 8 no.11:7-13 N '65. (MIRA 18:12)

1. Moskovskiy geologorazvedochnyy institut (for Anufriyev).

BOTVINKINA, Lyubov' Nikolayevna; YABLOKOV, V.S., otv.red.; PEYVE, A.V.,  
akademik, glavnyy red.; KUZNETSOVA, K.I., red.; MENNER, V.V., red.;  
T.MOFEYEV, P.P., red.

[Manual on the methods of studying bedding; transactions.]  
Metodicheskoe rukovodstvo po izucheniiu sloistosti. Moskva,  
Nauka, 1965. 258 p. (Akademiia nauk SSSR. Geologicheskii  
institut. Trudy, vol. 119) (MIRA 18:4)

KAZARIYOV, V.P., otv. red.; BGATOV, V.I., red.; KAZANSKIY, Yu.P.,  
red.; KRASHENINNIKOV, G.F., red.; SAKS, V.N., red.;  
YAFLOKOV, V.S., red.; SHPAKOVSKAYA, L.I., red.

[Methods for compiling lithological facies and paleo-  
geographic maps; transactions] Metody sostavleniia li-  
tologofatsial'nykh i paleogeograficheskikh kart; trudy.  
Novosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR.  
Vol.1. 1963. 174 p. (MIRA 13:1)

1. Vsesoyuznoye litologicheskoye soveshchaniye. 5th.  
Novosibirsk, 1961.



KAZARINOV, V.P., otv. red.; BGATOV, V.I., red.; KAZANSKIY,  
Yu.P., red.; KRASHENINNIKOV, G.F., red.; SAKS, V.N.,  
red.; YABLOKOV, V.S., red.; SHFAKOVSKAYA, L.I., red.

[Sedimentary formations of Siberia; transactions] Osa-  
dochnye formatsii Sibiri; trudy. Novosibirsk, Red.-  
izd. otel Sibirskogo otd-niia AN SSSR. Vol.2. 1964.  
162 p. (MIRA 18:6)

1. Vsesoyuznoye litologicheskoye soveshchaniye. 5th,  
Novosibirsk.

*Basal-2*

L 38202-6; EWT(1) JM

ACC NR: AP6022089

SOURCE CODE: UR/0141/66/009/003/0634/0637

AUTHOR: Kuznetsov, M. I.; Yablokov, Yu. A.

ORG: none

TITLE: Noise correlation in magnetrons under preoscillating conditions

SOURCE: IVUZ. Radiofizika, v. 9, no. 3, 1966, 634-637

TOPIC TAGS: magnetron, correlated noise, signal noise separation

ABSTRACT: A method and equipment are described which were used for qualitative determination of statistical characteristics of fluctuation in magnetrons. The J. Middleton method of dispersion diagrams was used for measuring the correlation and autocorrelation coefficients. These coefficients of noise emf's induced at various spots of an experimental model were measured. In the experimental cylindrical nonslotted magnetron (see Fig. 1): 1 - anode, 2 - cathode, 3 - ceramic washer, 4 - measuring disk;  $r_a/r_c = 2.9$ . Photographs are shown of the dispersion diagrams for the signals taken from the disks spaced by  $105^\circ$ , with  $H = 2H_{crit}$ . It is found that the fluctuations taken from the disks are practically coherent but phase-shifted. The magnetron noise

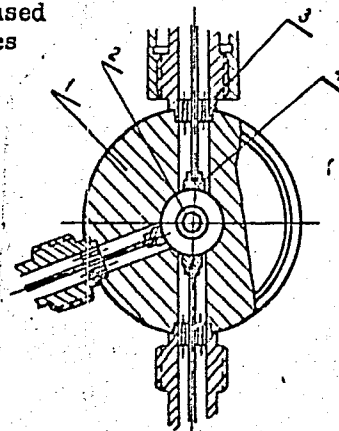


Fig. 1.

UDC: 621.385.64

Card 1/2

L 38202-61

ACC NR: AF6022089

fluctuations represent planar rotating space-charge waves that have slow-fluctuating amplitudes and phases. Orig. art. has: 4 figures, 4 formulas, and 2 tables. [03]

SUB CODE: 09 / SUBM DATE: 28Jan66 / ORIG REF: 001 / ATD PRESS: 5045

Card 2/2726P

YABLOKOV, Yu.S.; LOZOVATSEKIY, V.M.

Obtaining titanium trichloride for use as catalyst in polymerization processes. Titan i ego splavy no.8:135-139 '62. (MIRA 16:1)  
(Titanium chloride) (Catalysts)

83172

S/056/60/039/002/009/044  
B006/B056

24.7900

AUTHORS:

Yegorov, G. A., Yablokov, Yu. V.

TITLE:

Paramagnetic Resonance in a  $\text{CrCl}_3$  Quasi-single Crystal

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,  
Vol. 39, No. 2(8), pp. 265 - 266

TEXT: The authors investigated the electron paramagnetic resonance in chromium chloride quasi-single crystals at room temperature and  $36 \cdot 10^3 \text{Mc/sec}$ . Chromium chloride crystallizes in hexagonal layers, in which case the chromium atoms form a layer that is bounded by layers of chlorine atoms on both sides. The crystals have the shape of thin lamellas (parallel to the layers). The samples investigated consisted of several such layers (3-5); the investigation method has already been described in Ref. 4. The measurements gave the following values of the g-factor and the line width:  $g_1 = 1.989 \pm 0.001$ ,  $g_2 = 1.984 \pm 0.001$ ,  $\Delta g = 0.005 \pm 0.002$ ,  $\Delta H_1 = (98 \pm 2) \text{oe}$ ,  $\Delta H_2 = (140 \pm 5) \text{oe}$ . This shows that the g-factor of  $\text{CrCl}_3$  quasi-single crystals has a considerable anisotropy which is accompanied by a change in the width of the resonance

Card 1/3

Paramagnetic Resonance in a  $\text{CrCl}_3$   
Quasi-single Crystal

83172  
S/056/60/039/002/009/044  
B006/B056

absorption curve. In the following, several possibilities of explaining the changes in the resonance line widths are discussed. Between the line widths observed and the calculated values there are considerable deviations which indicate that a strong exchange interaction exists between the  $\text{Cr}^{3+}$  ions. On the other hand, a comparison between calculated and measured  $\Delta H$ -values shows that the direction dependence of the resonance line widths is due to an anisotropy of the exchange interactions. Also a study of the  $\text{CrCl}_3$  structure leads to the same result. The frequency of the exchange interaction may be estimated as being  $\omega_{el} = 3.2 \cdot 10^{11}$  cps,  $\omega_{eh} = 1.7 \cdot 10^{11}$  cps (exchange perpendicular to and in the direction of the axis of symmetry of the crystal, respectively). The authors finally thank Professor B. M. Kozyrev for suggesting the subject. There are 7 references: 3 Soviet and 4 US.

Card 2/3

831.72

Paramagnetic Resonance in a  $\text{CrCl}_3$   
Quasi-single Crystal

S/056/60/039/002/009/044  
B006/B056

ASSOCIATION: Fiziko-tekhnicheskiy institut Kazanskogo filiala  
Akademii nauk SSSR (Institute of Physics and  
Technology of the Kazan' Branch of the Academy of  
Sciences USSR)

SUBMITTED: March 19, 1960

4

Card 3/3

YABLOKOV, Yu.V.

Paramagnetic resonance in various forms of  $\alpha, \alpha$ -diphenyl- $\beta$ -picrylhydrazyl. Dokl. AN SSSR 133 no.2:424-426  
Jl '60. (MIRA 13:7)

1. Kazanskiy filial Akademii nauk SSSR. Predstavleno  
akademikom A.Ye.Arbusovym.  
(Paramagnetic resonance and relaxation)  
(Radicals(Chemistry))



ABLOV, A.V.; YABLOKOV, Yu.V.; ZHERU, I.I.

Electron paramagnetic resonance studies of the structure of certain copper acetates and copper chloroacetates. Dokl. AN SSSR 141 no.2:343-345 N '61. (MIRA 14:11)

1. Institut khimii Moldavskogo filiala AN SSSR i Fiziko-tekhni-cheskiy institut Kazanskogo filiala AN SSSR. Predstavleno akadem-ikom A.Ye. Arbuzovym.

(Copper acetate--Spectra)

24.7900

38916

S/181/62/004/006/023/051  
B104/B112

AUTHORS: Yafayev, N. R., and Yablokov, Yu. V.

TITLE: Paramagnetic electron resonance of  $Ti^{3+}$  in some silicate and phosphate glasses

PERIODICAL: Fizika tverdogo tela, v. 4, no. 6, 1962, 1529 - 1534

TEXT: The paramagnetic electron resonance in silicate, phosphate, and borate glasses, to which were added  $K_2O$ ,  $Na_2O$ , and  $Li_2O$  one after another, was investigated for 9330 and 458 Mc/sec at temperatures of 300 and 77°K. All samples contained 1 to 5 mole%  $TiO_2$ . To obtain  $Ti^{3+}$  ions in the glasses, the latter were boiled with a smoking flame under strongly reducing conditions. To each charge were added carbonates of alkali metals and carbon in quantities of about 0.5% by weight. Conclusions: The borate glasses contained no trivalent Ti ions. In the silicate and phosphate glasses, the  $Ti^{3+}$  ions are surrounded by nitrogen octahedra distorted in different degrees. The distortions possess a trigonal nature. The symmetries of the surroundings of the

Card 1/2

Paramagnetic electron resonance...

S/181/62/004/006/023/051  
B104/B112

Ti<sup>3+</sup> ions have one and the same character. However, the splitting of the orbital triplet in the phosphate glasses is larger than in the silicate glasses. In the silicate glasses, the splitting is largest when the Li<sup>+</sup> ions are replaced by Na<sup>+</sup> ions, and the Na<sup>+</sup> ions by K<sup>+</sup> ions. A similar dependence of the splitting in phosphate glasses could not be observed. If potassium is replaced by lithium and sodium, the Ti<sup>3+</sup> concentration in the glasses decreases. The results agree with the data of studies on absorption spectra in the visible region. There are 1 figure and 1 table. ✓

ASSOCIATION: Leningradskiy gosudarstvennyy opticheskiy institut im. S. I. Vavilova (Leningrad State Optical Institute imeni S. I. Vavilov). Fiziko-tekhnicheskiy institut Kazanskiy filial AN SSSR (Physicotechnical Institute of the Kazan' Branch AS USSR)

SUBMITTED: January 25, 1962

Card 2/2

YABLOKOT, Yu.V.; ABLOV, A.V., akademik

Electron paramagnetic resonance of anhydrous copper salts of  
monocarboxylic acids. Dokl. AN SSSR 144 no.1:173-176 My '62.  
(MIRA 15:5)

J. Fiziko-tekhnicheskiy institut Kazanskogo filiala AN SSSR i  
Institut khimii AN Moldavskoy SSR. 2. AN Moldavskoy SSR (for Ablov).  
(Copper salts---Spectra)

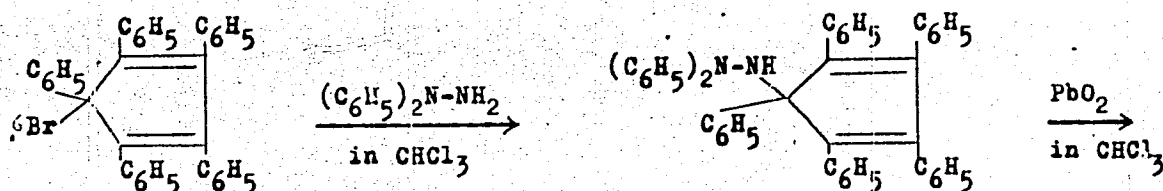
S/020/62/147/001/015/022  
B106/B101

AUTHORS: Arbuzov, A. Ye., Academician, Valitova, F. G., Il'yasov, A. V.,  
Kozyrev, B. M., Yablokov, Yu. V.

TITLE: Study of the free radical  $\alpha, \alpha$ -diphenyl- $\beta$ -pentaphenyl-cyclo-  
pentadienyl hydrazyl by the e.p.r. method

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 1, 1962, 99-102

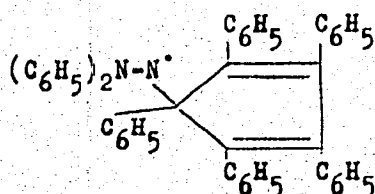
TEXT: The e.p.r. spectrum of the free radical  $\alpha, \alpha$ -diphenyl- $\beta$ -pentaphenyl-  
cyclopentadienyl hydrazyl (I) was studied both in solution and in its  
crystalline state. The synthesis of I was:



Card 1/4

Study of the free radical ...

S/020/62/147/001/015/022  
B106/B101



(I). Data for the radical: yield 70-80%;

small bright-orange crystals with a melting point  $>180^{\circ}\text{C}$  (decomposition); soluble in benzene, chloroform, alcohol, acetonitrile, glacial acetic acid and dioxane. In dilute solutions ( $<10^{-5}$  moles/l), the spectra show a hyperfine structure, the analysis of which proves that the unpaired electron in I remains mainly on the nitrogen atoms. A comparison of the e.p.r. spectrum of I with the spectrum of the  $\alpha,\alpha$ -diphenyl- $\beta$ -picrylhydrazyl radical (DPPH) showed that the additional hyperfine structure is due solely to the protons of the  $\alpha$ -phenyl groups. It may be explained by the interaction of the unpaired electron with the 2,4,6-protons of one of the two  $\alpha$ -phenyl groups. The value obtained for the constant  $a$  of hyperfine coupling was 1.7 oersteds, and for  $\Delta H_n$  1.1 oersteds. The relative

Card 2/4

Study of the free radical ...

S/020/62/147/001/015/022  
B106/B101

stability of related free radicals from the e.p.r. spectra are estimated by the method of J. A. Weil, K. V. Sane, J. M. Kinkade (J. Phys. Chem., 65, 710 (1961)) showed that I is chemically more stable than DPPH. Its stability may be due to steric factors reducing the possibility of chemical reactions with other substances. The values obtained from the e.p.r. spectra of I in finely crystalline state, which may contain solvent, were  $15.7 \pm 0.3$  oersteds for  $\Delta H$  at  $295^\circ\text{K}$ ,  $10.5 \pm 0.3$  oersteds at  $77^\circ\text{K}$ , 1.43 for  $r$  at  $295^\circ\text{K}$ , and 1.45 at  $77^\circ\text{C}$  ( $r = \langle \Delta H^4 \rangle^{1/4} / \langle \Delta H^2 \rangle^{1/2}$ ). The  $g$ -tensor at  $295^\circ\text{K}$  is:  $g_1 = 2.0039 \pm 0.0001$ ,  $g_2 = 2.0051 \pm 0.0001$ , and  $g_3 < g_1$ . The considerable difference between these values and the  $g$ -factor of DPPH suggests that the molecular structure of the free radical considerably affects the residual spin - orbital coupling and anisotropy of the  $g$ -factor. There are 3 figures and 1 table. The most important English-language references are: M. M. Chen, K. V. Sane et al., J. Phys. Chem., 65, 713 (1961); B. Kubo, K. Tomita, J. Phys. Soc. Japan, 9, 888 (1954); F. K. Kneubuhl, J. Chem. Phys., 33, 1074 (1960).

Card 3/4

Study of the free radical ...

S/020/62/147/001/015/022  
B106/B101

ASSOCIATION: Fiziko-tekhnicheskiy institut Kazanskogo filiala Akademii nauk SSSR (Physicotechnical Institute of the Kazan' Branch of the Academy of Sciences USSR); Khimicheskiy institut im. A. Ye. Arbuzova Akademii nauk SSSR (Chemical Institute imeni A. Ye. Arbuzov of the Academy of Sciences USSR)

SUBMITTED: August 8, 1962

Card 4/4



YABLOKOV, YU. V.

43218

S/020/62/147/003/022/027  
B101/B186

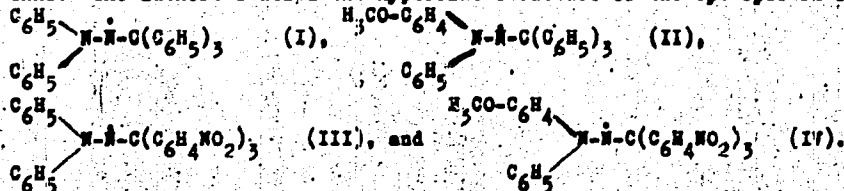
11.1510

AUTHORS: Ikrina, M. A., Il'yasov, A. V., Kozыrev, B. M., Matevosyan, R. O., Ryzhmanov, Yu. M., Yablokov, Yu. V.

TITLE: Hyperfine structure of the e.p.r. spectra of  $\alpha, \gamma$ -diphenyl- $\beta$ -triphenyl methyl hydrazyl and its derivatives

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 3, 1962, 610-621

TEXT: The authors studied the hyperfine structure of the epr spectra of



As these radicals were unstable in air, the reaction mixture of hydrazines

Card 1/4

Hyperfine structure of ...

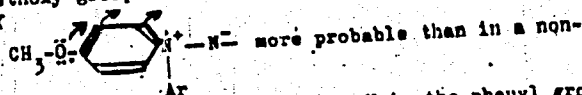
S/020/62/147/003/022/027  
B101/B186

( $< 0.001$  moles/l) dissolved in benzene or chloroform, was evacuated at  $77^{\circ}\text{K}$ , and the e.p.r. spectrum was recorded in vacuo at 9330 Mcps. Each spectrum contains seven completely resolved components of hyperfine structure. Each component was restructurized owing to an effect caused by protons at the periphery. This additional structure, however, is not discussed, as the data are insufficient for identifying these protons. The experimental data were analyzed by constructing a theoretical nine-component spectrum, for which the values for  $A_1$ ,  $A_2$ , and  $\Delta H$  were so chosen as to make the position and shape of the lines consistent with the experimental spectrum. A computer was used to calculate the data for  $A_1/A_2$ ,  $A_1 + A_2$  (oe),  $A_1$  ( $\pm 0.20$  oe) and  $A_2$  ( $\pm 0.20$  oe): for I 0.472, 17.70, 5.68, 12.02; for II 0.502, 17.80, 5.95, 11.85; for III 0.582, 18.20, 6.70, 11.50, and for IV 0.604, 18.33, 6.91, and 11.42, respectively. As compared with the results for diphenyl picryl hydrazyl obtained by M. M. Chen, K. V. Sane et al. (J. Phys. Chem. 65, 713 (1961)), the shift of the unpaired electron in  $\alpha$ , $\alpha$ -diphenyl- $\beta$ -triphenyl methyl hydrazyl and its derivatives is mainly restricted to the two N atoms and  $\alpha$ -phenyl groups. This explains the low stability of these radicals. The presence of the acceptor phenyl groups of triphenyl methyl  
Card 2/4

S/020/62/147/003/022/027  
B101/B186

Hyperfine structure of ...

increases the electron density of the unpaired electron on the N atom. Substitution of one methoxy group for one p-H atom of the  $\alpha$ -phenyl group makes the existence of



substituted radical. Substitution of NO<sub>2</sub> for one p-H in the phenyl group of triphenyl methyl causes polarization of the electron clouds of the -C-C<, -N-N-C-, and -N-N- bonds. Polarisation decreases in the following sequence: -N-N- → N-N-C- → ( )<sub>3</sub>. This explains that the density

of the unpaired electron on the N atom revealed by the high  $A_1/A_2$  values, is higher than in nonsubstituted radicals. There are 1 figure and 2 tables. The most important English-language references are: E. M. Deal, W. S. Koski, J. Chem. Phys., 31, 1138 (1959); N. W. Lord, S. M. Blinder, J. Chem. Phys., 34, 1693 (1961); Y. Deguchi, J. Chem. Phys., 32, 1584 (1960).  
Card 3/4

Hyperfine structure of ...

S/020/62/147/003/022/077  
B101/B186

ASSOCIATION: Fiziko-tekhnicheskiy institut Kazanskogo filiala Akademii nauk SSSR (Physicotechnical Institute of the Kazan' Branch of Academy of Sciences USSR); Ural'skiy politekhnicheskiy institut im. S. M. Kirova (Ural Polytechnic Institute imeni S. M. Kirov)

PRESENTED: June 29, 1962, by B. A. Arbusov, Academician

SUBMITTED: June 22, 1962

Card 4/4

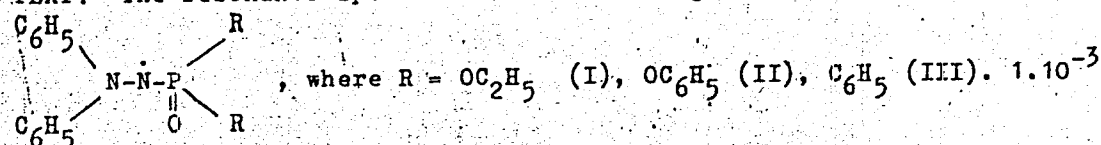
S/020/62/147/004/017/027  
B107/B186

AUTHORS: Arbuzov, A. Ye., Academician, Valitova, F. G.,  
Il'yasov, A. V., Kozyrev, B. M., Yablokov, Yu. V.

TITLE: Electron paramagnetic resonance in solutions of some free  
radicals of the phosphono-hydrazyl series

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 4, 1962, 839-842

TEXT: The resonance spectra of the following radicals were studied:



molar solutions in acetonitrile and chloroform were studied. A P3-1301  
(RE-1301) radiofrequency spectrometer with a 9330 Mc frequency of the  
magnetic field was used. In all cases, a hyperfine structure of five  
equidistant lines was caused by interaction of the unpaired electron with  
the two N<sup>14</sup> atoms. The spectrum is described by the spin Hamiltonian:

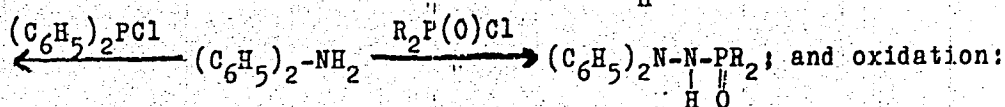
Card 1/3

S/020/62/147/004/017/027  
B107/B186

Electron paramagnetic resonance ...

$$\hat{\mathcal{H}} = g\beta\hat{H}S + A_1\hat{S}\hat{I}_{N_1} + A_2\hat{S}\hat{I}_{N_2}, \text{ where } \beta \text{ is the Bohr magneton, } g \approx g$$

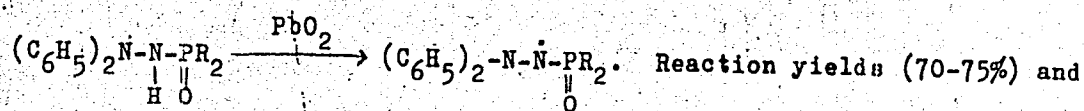
( $\alpha, \alpha$ -diphenyl- $\beta$ -picryl hydrazyl) = 2.0036,  $H$  is the value of the static magnetic field,  $S = 1/2$ ;  $I_{N_1} = I_{N_2} = 1$ . The constants  $A_1$  and  $A_2$ , and the width  $\delta H$  between maximum and minimum of the first derivative of the individual hyperfine structure line were obtained through comparison with theoretically plotted curves, using the given parameters. Calculated data agreed well with those obtained by experiments.  $A_1 + A_2$  values found for phosphono-hydrazyls (maximum: 11.4 oe in azetonitrile, minimum: 9.4 in chloroform) were considerably less than the known value of 17.52 oe established for  $\alpha, \alpha$ -diphenyl- $\beta$ -picryl-hydrazyl. A hyperfine structure caused by the  $P^{31}$  nucleus was not found. The production of phosphono-hydrazyls followed the reaction  $(C_6H_5)_2N-N-P(C_6H_5)_2 \leftarrow$



Card 2/3


Electron paramagnetic resonance ...

S/020/62/147/004/017/027  
B107/B186



Reaction yields (70-75%) and

physical properties of phosphono-hydrazyls were tabulated. There are 1 figure and 2 tables.

ASSOCIATION: Khimicheskiy institut im. A. Ye. Arbuzova Akademii nauk SSSR (Chemical Institute imeni A. Ye. Arbuzov of the Academy of Sciences USSR); Fiziko-tekhnicheskiy institut Kazanskogo filiala Akademii nauk SSSR (Physicotechnical Institute of the Kazan' Branch of the Academy of Sciences) 

SUBMITTED: September 15, 1962

Card 3/3

ARBUZOV, B.A.; BUTENKO, G.G.; YABLOKOV, Yu.V.

Study of some polyene ketones by the electron paramagnetic resonance method. Izv. AN SSSR. Ser. khim. no. 8: 1511-1514 Ag '63. (MIRA 16:9)

Kazanskiy gosudarstvennyy universitet im. Ul'yanova-Lenina i Fiziko-tekhnicheskii institut Kazanskogo filiala AN SSSR.  
(Ketones--Spectra)



L 18578-63

PI-4/Pq-4 GG/JD/NH/JG

EWT(1)/EWP(q)/EWT(m)/BDS/EEC(b)-2 AFPTC/ASD/ESD-3/IJP(C)

ACCESSION NR: AP3001289

S/0131/63/005/006/1673/1677

AUTHORS: Yafayev, N. R.; Garif'yanov, N. S.; Yablokov, Yu. V.

TITLE: Electron paramagnetic resonance of W sup 5+ ions in glass

SOURCE: Fizika tverdogo tela, v. 5, no. 6, 1963, 1673-1677

TOPIC TAGS: electron paramagnetic resonance, W, glass, silicate glass, phosphate glass, g-factor, hyperfine structure, silica tetrahedron

ABSTRACT: The electron paramagnetic resonance of pentavalent W ions was studied in silicate and phosphate glasses at frequencies of 9320 and 440 megacycles and at temperatures of 295 and 77K. At the low frequency and low temperature all specimens displayed narrow symmetrical lines with a g-factor of about 1.6, the shape of the lines being approximately gaussian. With gradual elevation of temperature the lines grew constantly broader and the position of maximum absorption did not change. At the high frequency and at 77K, broad, almost symmetrical, lines were obtained in silicate glasses, but narrower and more asymmetrical lines were found in phosphate glasses. The shapes of the lines and the values of the g-factors did not change for silicate glasses on attaining room temperature. In the phosphate glasses, however, the lines grew broader on

Card 1/2

L 18578-63

ACCESSION NR: AP3001289

the rise in temperature, and the asymmetry became less clearly defined. These results are explained on the assumption that the W ions are located within the silica tetrahedrons. But more experimental work is needed to determine the position precisely. At the 440 megacycle frequency hyperfine structure was detected from the  $W^{183}$  isotope. In the glasses examined by the authors the signal of electron magnetic resonance was observed only from pentavalent W, which has an electron spin of  $\frac{1}{2}$ . For other paramagnetic ions of W having a spin greater than  $\frac{1}{2}$ , the lines of electron paramagnetic resonance in glasses should be blurred by the fine structure. Orig. art. has: 2 figures, 1 table, and 1 equation.

ASSOCIATION: Gosudarstvennyy opticheskiy institut im. S. I. Vavilova,  
Leningrad (State Optical Institute)

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Card 2/2

KOZYREV, B.M.; YABLOKOV, Yu.V.; MATEVOSYAN, R.O.; IKRINA, M.A.;  
IL'YASOV, A.V.; RYZHMANOV, Yu.M.; STASHKOV, L.I.; SHATRUKOV, L.F.

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akademikom A.Ye.Arbutovym.

(Radicals (Chemistry)--Spectra)

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USSR / General and Special Zoology. Insects. P

Abs Jour: Ref Zhur-Biol., No 4, 1958, 16294

Author : Yablokov-Khizorian S.M.

Inst : Not given

Title : Two New Staphylinidae Beetles from the Armenian  
SSR (Coleoptera, Staphylinidae).  
(Dva novykh zhuka-stafilina iz Armyanskoi SSh.  
(Coleoptera Staphylinidae)

Orig Pub: Zool. zh., 1957, 36, No 2, 291-293.

Abstract: Diagnosis and illustrations of two new species  
Dianous elegans and Pronomaea subterranea are  
given. A table for distinguishing the European  
species of p. Pronomaea is also attached.

Card 1/1

*Acad. Sci  
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